

4. Budget Plan:

TOBACCO INDUSTRY RESEARCH COMMITTEE  
350 FIFTH AVENUE NEW YORK 1, N.Y.

Salaries

Expendable Supplies

Application For Research Grant

Overhead

Other (Travel, Postage, etc.)

Analyses, etc.

October 6, 1954 per Annex

Date: *June 16, 1955*

Signature: *John H. Decker*

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a) Marion B. Sulzberger, M. D.  
b) Will Cook Spain, M. D.  
c) Rosa Lee Memir, A.B., M.D.

a) Professor and Chairman, Dept. of Dermatology & Syphilology, New York University Post-Graduate Medical School; Director, New York Skin and Cancer Unit.

b) Professor of Clinical Medicine, Director of Allergy Section.

c) Associate Professor of Pediatrics. *Indicates each of the Departments*

3. Institution: Above at the New York Skin and Cancer Unit, University Hospital.

4. Address: New York University - Bellevue Medical Center - *Sharing services of New York*

5. New York 16, N. Y.

4. Project or Subject:

Investigation of the effects of tobacco on the human vascular system in living volunteers; and in particular of the possibility that certain tobacco effects are based on peculiar allergic susceptibility of specific individuals rather than upon obligatorily toxic products in tobacco smoke - *origin, cigarette* *smoking of different brands*.

5. Detailed Plan: *Previously submitted herewith* *and* *Applicant* (see attached reprints) *and* *by others* *have shown* *that extracts* *of cigarette* *and other tobacco* *are capable of* *producing urticarial reactions* *in a certain percentage of human beings* *and that the incidence of these reactions is higher in* *Patients with thrombo-angiitis obliterans* *since with a greater*

*percentage of patients with smoking* *and the facilities of his technical staff and*

*it has also been demonstrated that a significant drop in temperature of the digits during cigarette smoking is demonstrable in about 30% of subjects treated. (Reddish). This figure of approximately 30% corresponds to the approximately 30% of smokers found to react with urticarial reactions to skin tests with tobacco but it is not known whether it is the same 30% - i.e. whether those subjects with significant falls in temperature are also those with the urticarial skin responses.*

It is planned to carry out the following critical experiments to establish whether or not specific allergic sensitization plays a basic role in vascular reactions to tobacco smoking:

A) Infants and children will be skin tested with tobacco extracts from *various brands of cigarettes*, and from various types of uncured tobacco, to ascertain whether the incidence of positive reactions increases with age or is related to exposure to tobacco (families of smokers and non-smokers etc.)

B) Adolescents and young adults will be tested to ascertain whether there is a significant increase in incidence of skin reactions at the time of beginning smoking.

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*John H. Decker, M.D., Supervisor of Finance*

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5. Continued.

C) Patients with various vascular and other diseases which have sometimes been regarded as being made worse by smoking will be skin tested to ascertain whether their skin reactions are in higher incidence or greater intensity than those of control subjects of equivalent age and exposure to tobacco.

D) Volunteers will have the effects of smoking upon the temperature of their extremities accurately measured by the most exact modern instruments and will also have skin tests with a battery of tobacco extracts -- to see whether there is a positive correlation between reduction in peripheral temperature and reactions to skin tests.

E) All the skin test reactions from the battery of tobacco extracts will be statistically analyzed, not only in regard to host facts (such as age, tobacco exposure, smoking allergic and hereditary constitution, disease, etc.), but also in regard to relative capacity of various brands and types of tobacco to produce sensitization of the vascular tree ("index of sensitization", "relative sensitizing potential").

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TOBACCO INDUSTRY RESEARCH COMMITTEE  
350 FIFTH AVENUE NEW YORK 17, N. Y.

6. Budget Plan:

Salaries	\$ 10,000 per Annum
Expendable Supplies	500 " "
Applies Permanent Equipment	1,500 " "
Overhead	1,500 " "
Other (Travel, Biostatistical analyses, etc.)	2,500 per Annum
	October 6, 500 " Total 15,000

6) Nathan B. Sulzberger, M. D.

7. Anticipated Duration of Work: Will last Two years, M. D.

8) Post-graduate Chairman, Dept. of Dermatology & Syphilology, New York University

9. Facilities and Staff Available: Medical School, Hospital, Research Unit (none).

10) Director of Clinical Instruction, Director of Library Section.

11) Complete facilities and patients and selected staff of the Departments specified above at the New York Skin and Cancer Unit, University Hospital, Bellevue Hospital, Gouverneur Hospital and other teaching services of New York University-Bellevue Medical Center.

New York 16, N. Y.

12) Object of Research: Identification of the effects of tobacco on the human vascular system in living subjects. In particular of the possibility of temperature effects.

13) Additional Requirements: A) In particular of the possibility of temperature effects on vascular and lymphatic vessels of healthy individuals rather than on patients with diseases of the vascular and lymphatic systems.

14) Supply of pure tobacco of different types and origin, cigarette tobacco of different brands.

15) Additional Information (Including relation of work to other projects and other sources of supply):

16) Dr. Spain's experience and the facilities of his technical staff and laboratories (Miss Margaret Strauss) should prove invaluable in the preparation and control of the tobacco extracts and skin testing.

17) The experience and clinical material of Dr. Nemir and the Department of Pediatrics (Dr. Adolf De Sanctis) and the help of the Biostatistical Department (Dr. Donald Mainland) should also be of the very greatest value in the design and execution of the study and the evaluation of the results.

18) It is planned to carry out the following critical experiments to determine whether or not specific allergic sensitization plays a basic role in vascular reactions to tobacco smoking:

19) Infants and children will be skin tested with tobacco extracts from varying types of cigarettes, and from various types of tobacco, to determine whether the incidence of positive dermal reactions with age or is related to exposure to tobacco (family of smokers and non-smokers etc.).

20) Adults and young adults. Signature: Director of Nathan B. Sulzberger is a significant increase in incidence of skin reactions to tobacco smoking.

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Business Office of Nathan B. Sulzberger, Supervisor of Finance

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